

Geometry Date_____ 1.6 Assignment
Angle Pair Relationships (pp 44-46)

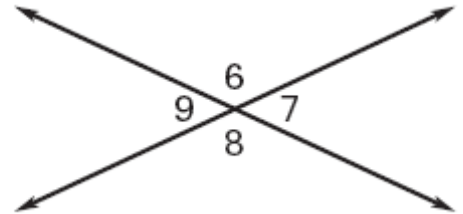
1. What is your name?

Write A if the statement is always true, S if the statement is sometimes true and N if the statement is never true.

2. _____ If two angles are complementary then they are adjacent.
3. _____ If two angles are a linear pair then they are adjacent.
4. _____ If two angles are vertical angles then they are adjacent.
5. _____ If two angles are supplementary then one angle is acute and one angle is obtuse.

Given one angle measure, find the other three.

6. If $m\angle 6 = 38^\circ$



7. If $m\angle 8 = 84^\circ$

8. If $m\angle 9 = 136^\circ$

9. If $m\angle 7 = 27^\circ$

Geometry Date_____ 1.6 Assignment
Angle Pair Relationships (pp 44-46)

Assume $\angle A$ & $\angle B$ are complementary and $\angle B$ & $\angle C$ are supplementary.

10. If $m\angle A = 52^\circ$, then find $m\angle B$ & $m\angle C$.

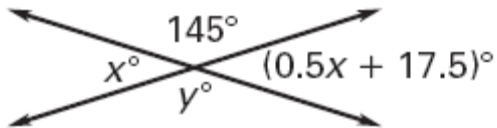
11. If $m\angle B = 67^\circ$, then find $m\angle A$ & $m\angle C$.

12. If $m\angle C = 107^\circ$, then find $m\angle B$ & $m\angle A$.

13. If $m\angle B = 12^\circ$, then find $m\angle A$ & $m\angle C$.

Find the values of the x & y .

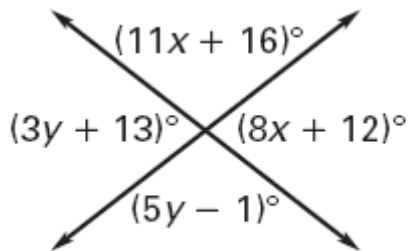
14.



Geometry Date _____ 1.6 Assignment
Angle Pair Relationships (pp 44-46)

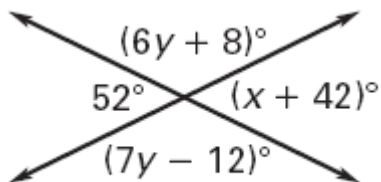
Find the values of the x & y .

15.

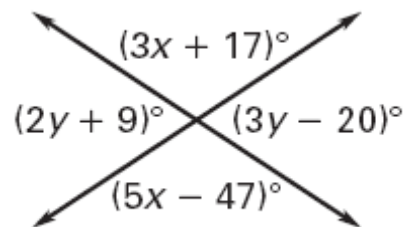


Find the values of the x & y .

16.



17.



Geometry Date_____ 1.6 Assignment
Angle Pair Relationships (pp 44-46)

Assume that $\angle A$ is supplementary to $\angle B$ and complementary to $\angle C$. Determine $m\angle A$, $m\angle B$, & $m\angle C$.

$$m\angle A = (x + 10)^\circ$$

$$m\angle A = (2.5x + 17)^\circ$$

18. $m\angle B = (12x + 1)^\circ$

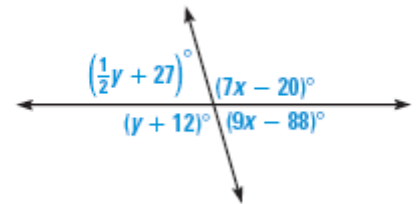
19. $m\angle B = (21x - 25)^\circ$

$$m\angle C = (5x + 2)^\circ$$

$$m\angle C = (8x - 11)^\circ$$

20. _____ What are the values of x & y ?

- A. $x = 16$ & $y = 88$
- B. $x = 18$ & $y = 94$
- C. $x = 18$ & $y = 118$
- D. $x = 74$ & $y = 16$
- E. $x = 74$ & $y = 106$



21. _____ $\angle F$ & $\angle G$ are supplementary. The measure of $\angle G$ is six and one half times the measure of $\angle F$. What is $m\angle F$?

- A. 20°
- B. 24°
- C. 24.5°
- D. 26.5°
- E. 156°

Review

Solve the equation (p 802)

22. $\frac{1}{2} \cdot 5 \cdot h = 20$

23. $2 \cdot 3.14 \cdot r = 40$

Geometry Date_____ 1.6 Assignment
Angle Pair Relationships (pp 44-46)

Solve the equation (p 802)

24. $\frac{1}{2} \bullet b \bullet 6 = 15$

25. $3.14 \bullet r^2 = 314$

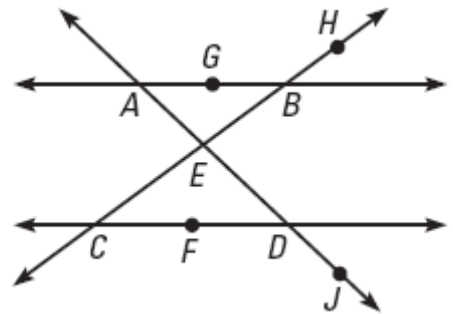
Use the diagram to find a third point that is collinear with the given points. (Chapter 1 Section 2)

26. A and J

27. D and F

28. H and E

29. B and G



Find the coordinates of the midpoint of a segment with the given endpoints. (Chapter 1 Section 5)

30. F(2, 5) & G(-10, 7)

31. P(-1.5, 4) & Q(5, -9)

32. K(8, -6) & L(-2, -2)

33. S(-2.4, 5), T(7.6, 9)